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October 1964

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PHOTOGRAPHIC INTERPRETATION REPORT

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PROBABLE ATOMIC ENERGY COMPLEX UNDER CONSTRUCTION NEAR CHIH-CHIN-HSIA, CHINA

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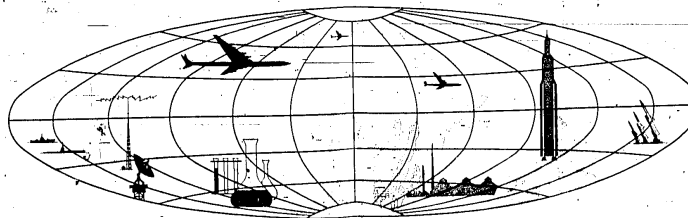
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PROBABLE ATOMIC ENERGY COMPLEX UNDER CONSTRUCTION NEAR CHIH-CHIN-HSIA, CHINA

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INTRODUCTION

This report updates information published in [] 1/ on the probable atomic energy complex under construction at 40-10N 97-25E near Chih-chin-hsia, China. It is based on photography of excellent quality from KEY-HOLE [] Figure 1).

No major expansion has taken place in the complex since [] however, the latest photography is of the best image quality yet obtained of this site, and details that were not evident on previous photography are now clearly visible (Figures 2 and 3).

PRODUCTION AREA

Although it is still not possible to assign definite functions to Sections I, II, and III of the Production Area, enough details are discernible to leave little doubt that this is an atomic energy complex, and to suggest possible or probable functions for some of the buildings.

SECTION I

The latest photography is of sufficiently high quality to permit a perspective view of the secured area of Section I to be drawn (inset, Figure 3).

The largest building in the section (Item 1, Section I, Figure 3 and Table 1) is now seen to be a rectangular building, measuring 495 by 75 feet, which is divided into a high and a low section with an extension of the high section across the northern end of the building (inset, Figure 3). A possible overhead pipeline connects the building with a flat-roofed building (Item 2) to the southwest. Two tall, square structures (Item 4) with possible vent flators on the roofs and large

mounds at the bases appear to be associated with the flat-roofed building.

Identification of a separately secured tank for storage of a hazardous liquid (Item 14), previously reported as a probable substation, is now possible. A small probable substation (Item 15), apparently secured by a fence, is located near the western corner of the section.

The tents outside the northern corner of the secured area have been removed.

SECTION II

No major changes have been made within Section II since [] The interior fences previously reported 1/ can be seen on this photography to be scars remaining from the removal of the security wall during expansion of the section.

The previously reported U-shaped building (Item 2, Section II, Figure 3) now appears as two separate buildings: one, a rectangular building west of the possible reactor building (Item 1), is connected to the other, an L-shaped building east of the possible reactor building, by an overhead passageway.

The unidentified wall-secured area near the borrow pit 1/ can now be identified as a group of five ordinary barracks-type buildings.

An important and apparently recently added feature associated with Section II is a trench (Figures 1 and 2), probably for a pipeline, that leads in a northeasterly direction to a probable waste disposal area 2.8 nautical miles (nm) away, where a large excavation, two large construction sheds, and two unidentified objects are located. The trench apparently was dug between [] there is no indication that any of the piping has yet been installed.

A reinforced ditch, which will probably carry effluent from Sections I and II into the bed of an intermittent stream, is located about 4,800 feet northeast of the junction of the main road and the road serving Section I (Figure 1). A probable underground pipeline (Figure 2) parallels the main road on the southeast side from the ditch almost to the secured area of Section II; a branch runs from about the midpoint of this probable pipeline into the secured area of Section I.

Paving of the permanent road network within Section II was started sometime after [] and was still in progress on []

SECTION III

A better view of the massive probable reactor building under construction (Figures 2 and 3) indicates that its configuration will be somewhat different from that represented in the previous report. 1/ The building will probably be rectangular and will possibly have a high bay. In the middle of the possible high bay the impression of a circular structure remains. A long, low extension is under construction at the base of the eastern side of the building. The construction of part of the building appears to have progressed to above ground level. An L-shaped building and an associated possible stack are under construction about 500 feet to the north (Figures 2 and 3).

The beginning of a possible perimeter security fence is evident to the north of Sections I and II (Figure 2).

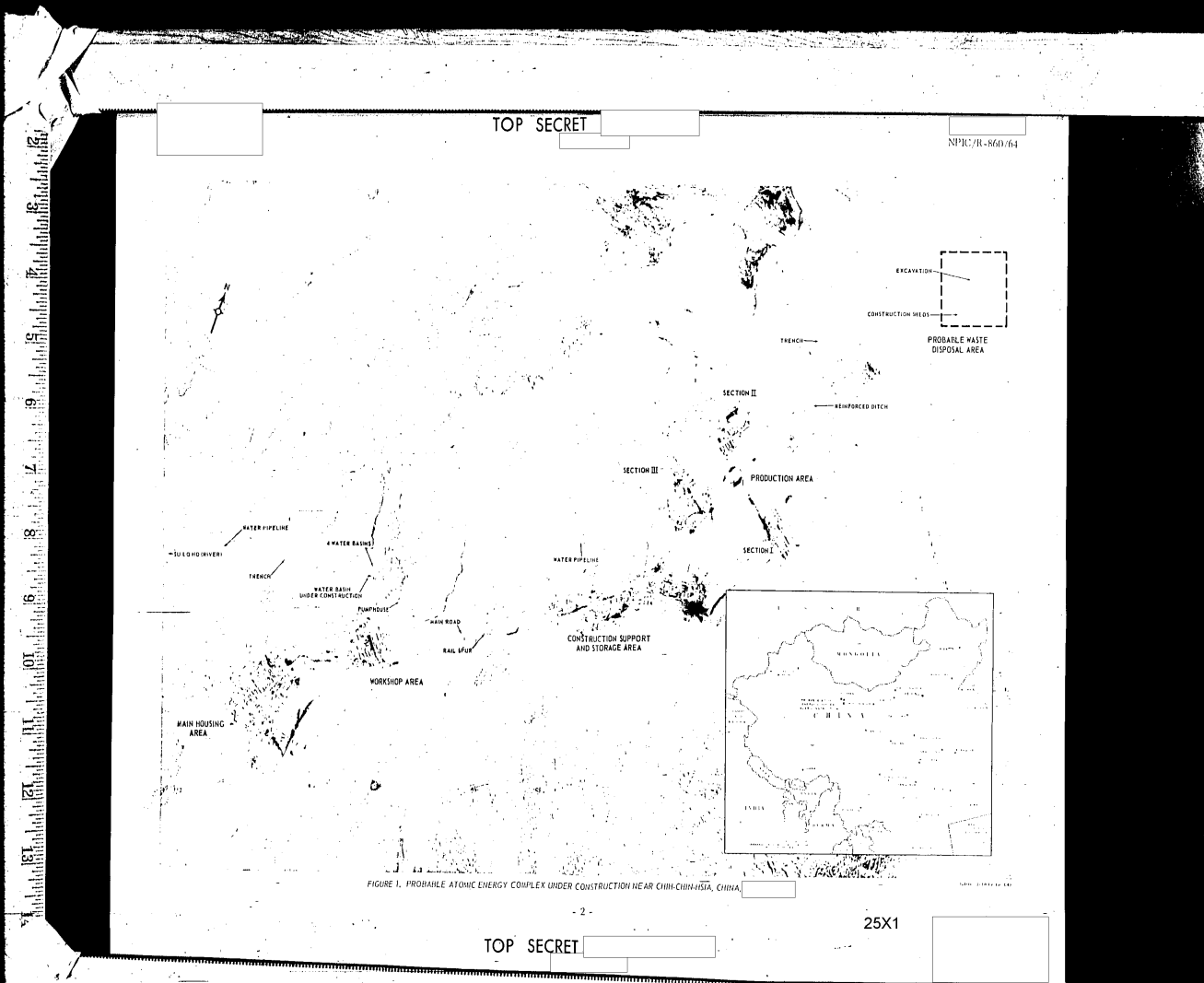
WATER SUPPLY

The main source of water for the complex is apparently the Su-lo Ho (River), which appears to have a consistent flow. A pipeline leads from the complex 26 nm west to a 1,150-

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foot dam across the river, which is bridged at that point. 2/ A spillway is at the northeastern end of the dam, and an overflow is at the southwestern end. A canal has been constructed to carry water to the irrigated fields surrounding Yu-men; both the pipeline and the canal tap the river at a point near the spillway. It appears that the dam serves only to channel water from the brads to the canal and the pipeline, and not to form a reservoir behind it.

Two small unidentified buildings are near the spillway, and three large filter beds and associated facilities are located approximately 2,000 feet to the north. The filter beds were under construction in [] one of the beds appeared to be filled with water.

The pipeline from the Su-lo Ho terminates about 3,000 feet north of the Workshop Area of the Probable Atomic Energy Complex, where four large, probably covered water basins apparently completed after [] and a fifth under construction are located. Two channels have been dug northward from the basins to two nearby streams. A new trench has been dug westward, paralleling the pipeline, to a stream about 5,500 feet away. From about the midpoint of the trench a branch leads a short distance northward to another nearby stream.

Pipelines from the area of the water basins lead to all areas of the complex. Accurate determination of the diameter of the pipelines is not possible from the small-scale photography available.

Table 1. Description of Facilities in Section I, Production Area (Areas are referred to Figure 2)

Item	Description	Dimensions (feet)
1	Unidentified building	125 x 75
2	Unidentified building	125 x 75
3	Stack, no evidence of smoke in August 1964	150h
4	Two tall structures with round at the base	"
5	Warehouse-type building, rail served	185 x 75
6	Unidentified building	60 x 30
7	Warehouse-type building, rail served	120 x 75
8	Possible fabrication or assembly building	"
9	Unidentified structure	"
10	Possible fabrication building, T-shaped	hatched steel
11	Possible storage building	100 x 50
12	Unidentified building	45 x 10
13	Support building	"
14	Tank, separately secured	"
15	Sub-station, separately secured	"

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CONSTRUCTION SUPPORT AND STORAGE AREA

FIGURE 2. PRODUCTION AREA.

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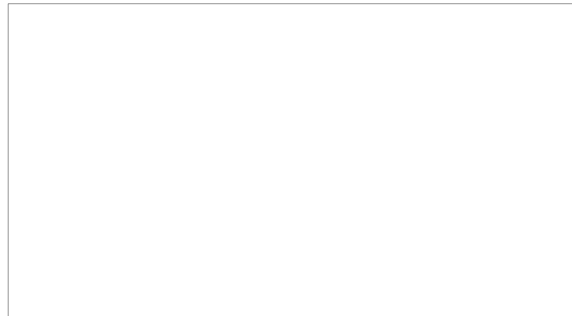
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REFERENCES



MAPS OR CHARTS

AFR, GCU 1-5, 1-10, Jan 60, scale 1:1,000,000 (CONFIDENTIAL)

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DOCUMENTS

1. NPRC, R-710-61, *Problems, Atomic Energy Company's Under Construction Atoms (Cheng-Kin Asia, China)*, Aug 61 (TOP SECRET)
2. NPRC, R-315-61, *Suspect Atomic Energy Company's Under Construction Atoms (Cheng-Kin Asia, China)*, Dec 61 (TOP SECRET)

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REQUIREMENT

CIA, CSSE-4, 720

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